

Claim 1, wherein:

a continuous search mode is applied during compensation and control operation of the means for compensating start timing.

5 10. A servo detection control method comprising:

measuring a servo sector interval, which may occur at the time of head change among a plurality of heads; calculating head-change time difference from the measured value; and

10 compensating start timing of servo detection after head change using the result of calculation.

11. A servo detection control method according to Claim 10, further comprising:

measuring the amount of head skew in a disk radius direction using a writing signal in a servo sector after the head change; and

controlling positioning of feed-forward of a head using the amount of head skew and the time difference.

12. A servo detection control method comprising:

20 measuring a servo sector interval, which may occur at the time of head change among a plurality of heads; calculating head-change time difference from the measured value;

measuring the amount of servo sector skew using a 25 servo sector address after the head change; and

compensating and controlling the servo sector address using the amount of servo sector skew and the time difference.

13. A hard disk drive comprising:

5 a rotary storage medium storing user data and a servo signal;

 a head reading the user data and the servo signal, which have been written by the medium;

10 an actuator driving the head;

 a controller learning driving of the actuator, said controller comprising: a circuit measuring a servo sector interval, which can occur in a change of the head; calculator change time difference of the head from a value measured by the interval measuring circuit; and a memory 15 for storing a result of calculation of the calculator;

 a circuit compensating start timing of servo detection after changing the head using a stored value of the memory;

 a sensor detecting a shock from outside; and

20 a circuit for judging whether or not a result of learning by the controller is adopted, using output of the sensor.

14. A hard disk drive according to Claim 13, wherein:

25 the controller further comprises a circuit measuring

the amount of head skew in a radius direction of the medium using a writing signal in a servo sector after changing the head.

15. A hard disk drive according to Claim 13, further
5 comprising:

a memory storing the amount of head skew; and
a second controller positioning of feed-forward of
the head using the amount of head skew.

16. A hard disk drive according to Claim 15,
10 wherein:

the memory storing a result of calculation is the
same memory as the memory storing the amount of head skew.

17. A hard disk drive according to Claim 13,
wherein:

15 the controller further comprises a circuit measuring
the amount of servo sector skew using a servo sector
address after changing the head.

18. A hard disk drive according to Claim 17, further
comprising:

20 a memory storing the amount of servo sector skew;
and

a second controller compensating and controlling a
servo sector address using the amount of servo sector skew.

19. A hard disk drive according to Claim 18,
25 wherein:

the memory storing a result of calculation is the same memory as the memory storing the amount of servo sector skew.

20. A hard disk drive according to Claim 13,
5 wherein:

a continuous search mode is applied during learning operation of the controller.

21. A hard disk drive according to Claim 13,
wherein:

10 a continuous search mode is applied during compensation and control operation of the circuit compensating start timing.